

KR-33493

Chemical Properties

CAS No. : 1021497-97-1

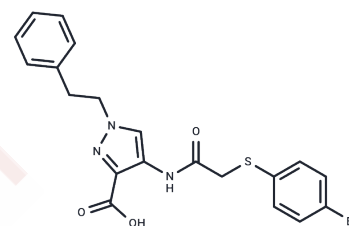
Formula: C₂₀H₁₈BrN₃O₃S

Molecular Weight: 460.34

Store under nitrogen

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	KR-33493 is a FAS-associated factor 1 (FAF1) inhibitor and can be used in studies about Parkinson's disease.
Targets(IC50)	Fas/FasL,TNF
In vitro	Bodyweight changes of both sexes are not related to KR-33493 in all doses. In rats administrated KR-33493 for 4 weeks, no test article-related changes in any treated groups of either sex are found in hematology, serum biochemistry, and urinalysis. In dogs administrated KR-33493 for 2 weeks, red blood cell count (RBC) value in males is significantly higher at the 1000 mg/kg/day dose than that of the control group (i.e., 6.96 ±0.323 vs. 6.12±0.418). However, the change of RBC is recovered after the end of the administration period.
In vivo	In Sprague-Dawley (SD) rats, KR-33493(500 and 1000 mg/kg; oral) shows no significant changes including Bodyweight changes, hematology, serum biochemistry, and urinalysis. In dogs, red blood cell count value in males is significantly higher at the 1000 mg/kg/day dose with KR-33493 and is recovered after the end of the administration period[1].

Solubility Information

Solubility	DMSO: 28 mg/mL (60.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.34 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1723 mL	10.8615 mL	21.7231 mL
5 mM	0.4345 mL	2.1723 mL	4.3446 mL
10 mM	0.2172 mL	1.0862 mL	2.1723 mL
50 mM	0.0434 mL	0.2172 mL	0.4345 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jeong JW, et al. Subacute toxicity evaluation of KR-33493, FAF1 inhibitor for a new anti-parkinson's disease agent, after oral administration in rats and dogs. Regul Toxicol Pharmacol. 2016 Nov;81:387-396.

Zhao F, et al. [Danggui Niantong decoction induces apoptosis by activating Fas/caspase-8 pathway in rheumatoid arthritis fibroblast-like synoviocytes]. Nan Fang Yi Ke Da Xue Xue Bao. 2020 Aug 30;40(8):1119-1126. Chinese.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481